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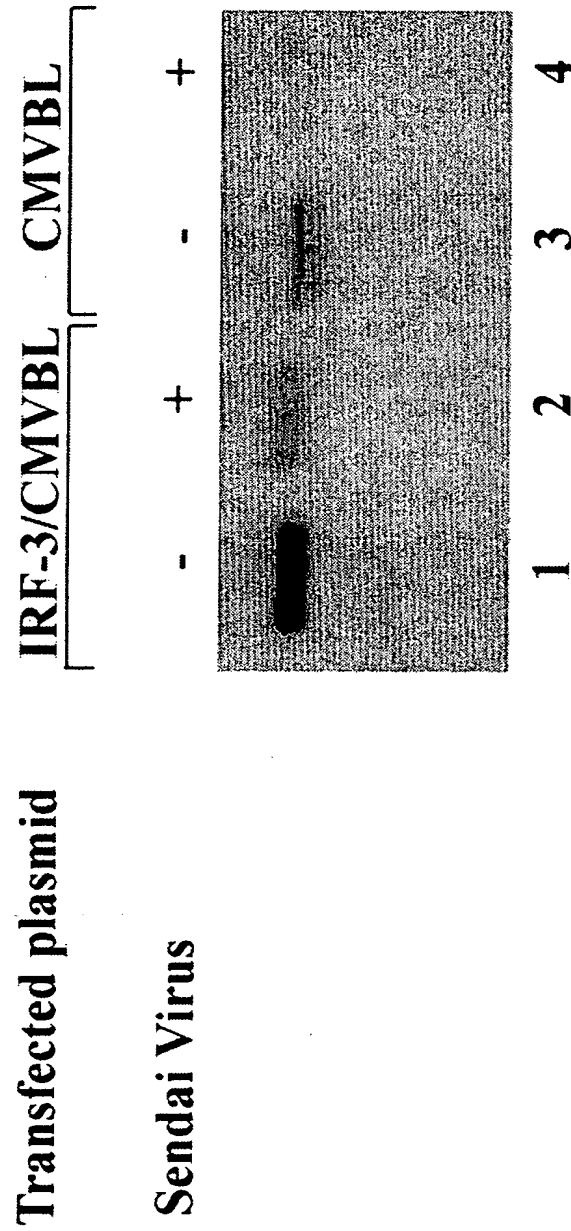


FIG. 1

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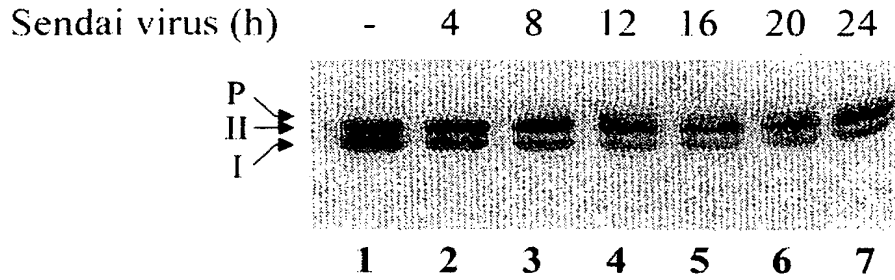


FIG. 2A

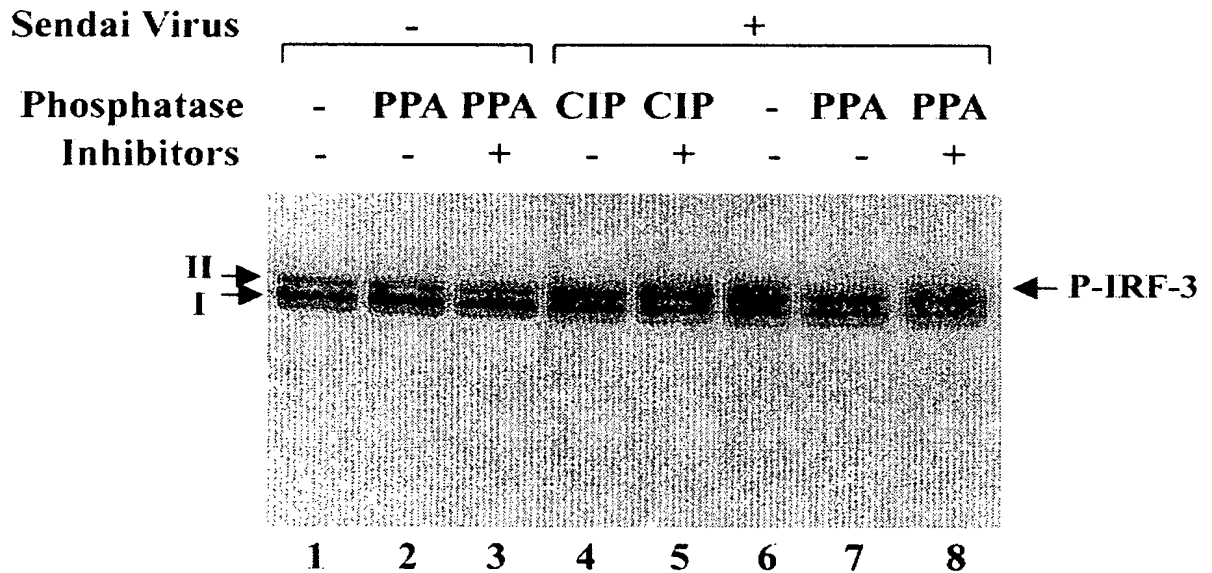


FIG. 2B

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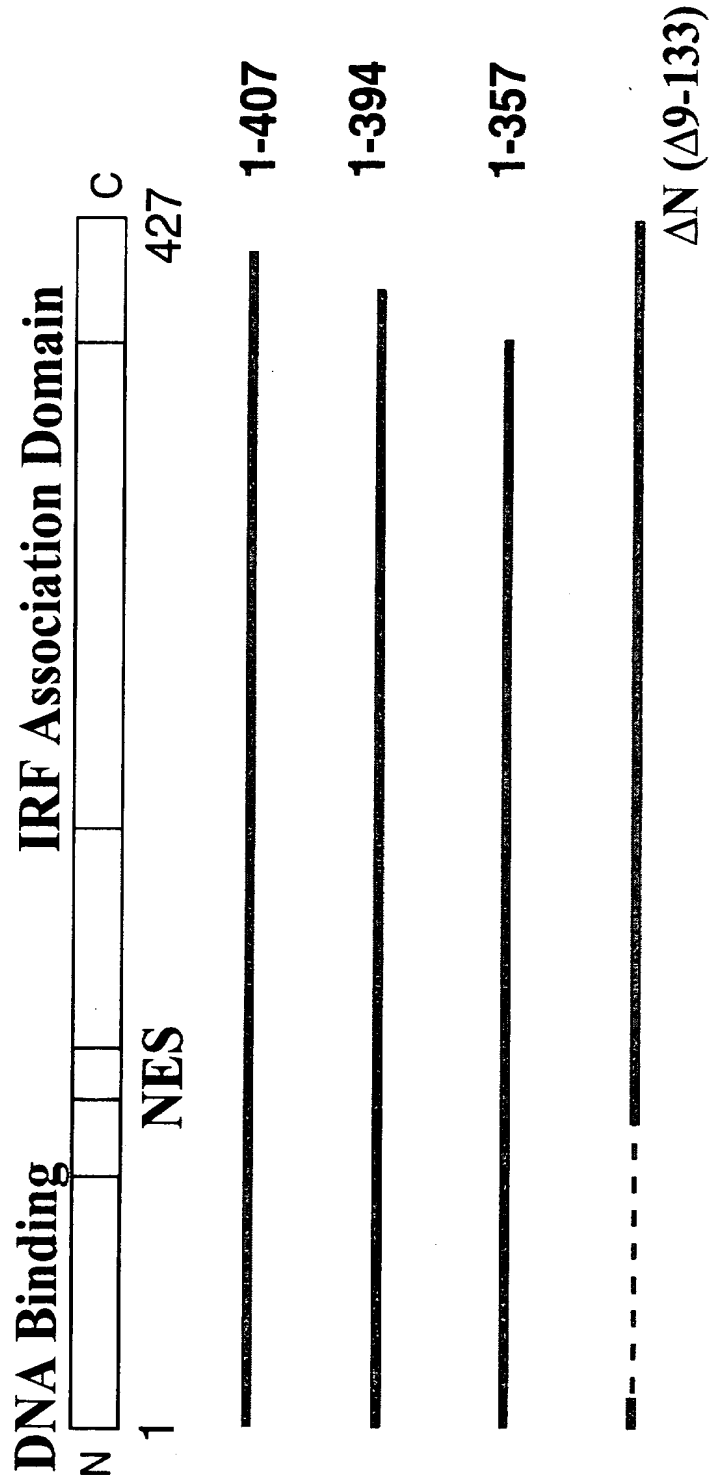


FIG. 3A

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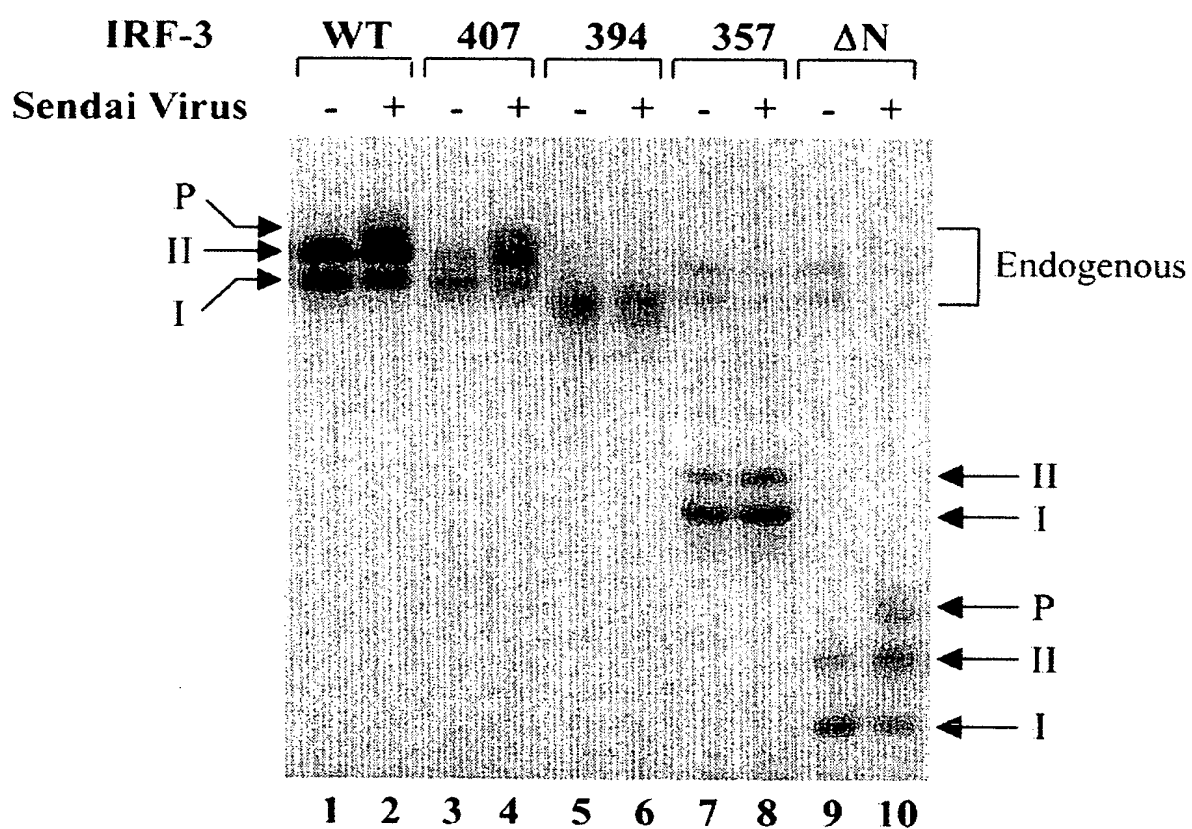


FIG. 3B

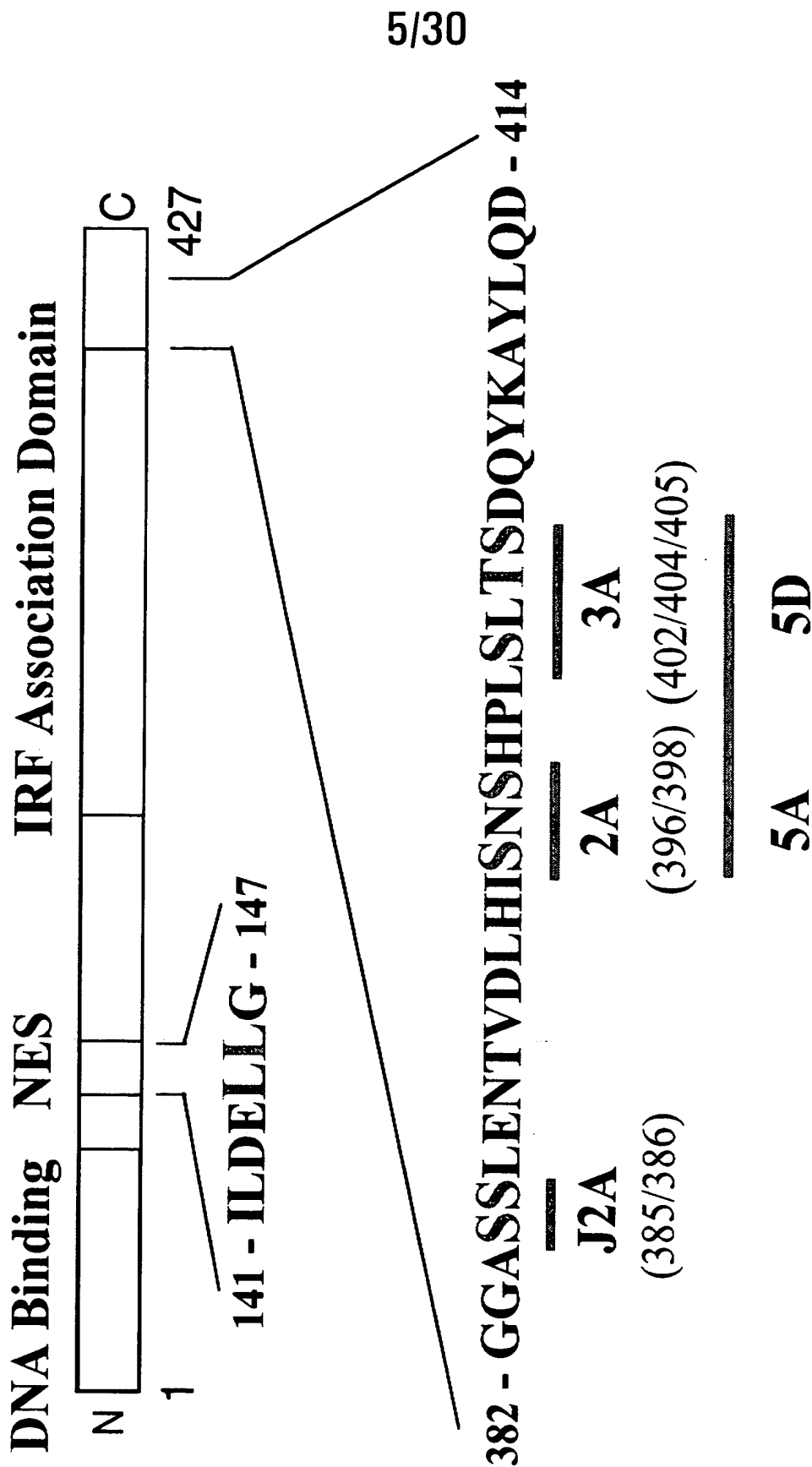


FIG. 4A

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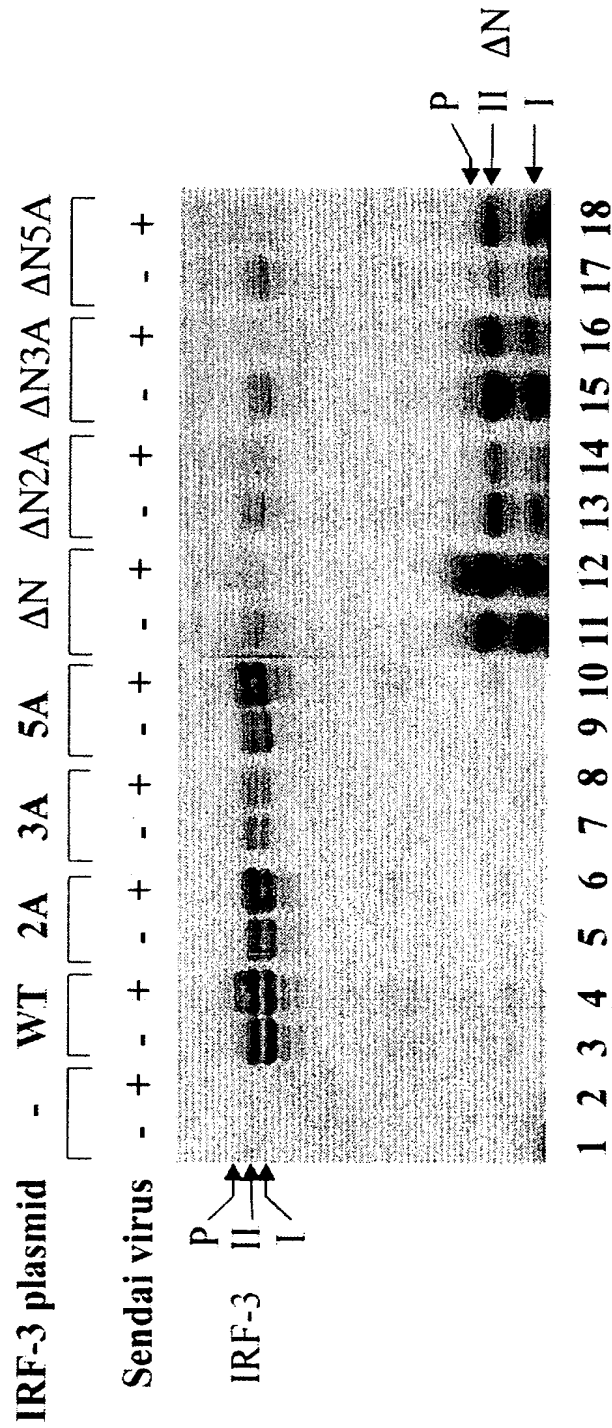
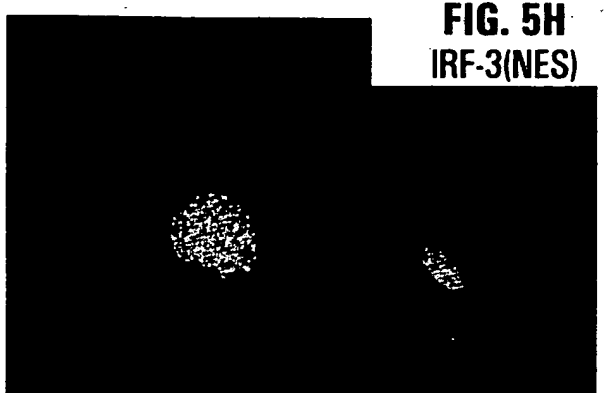
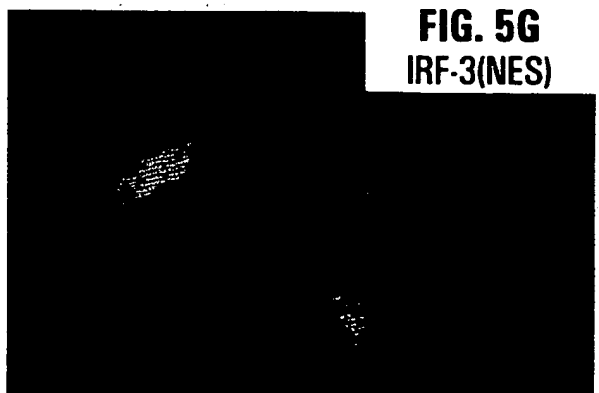
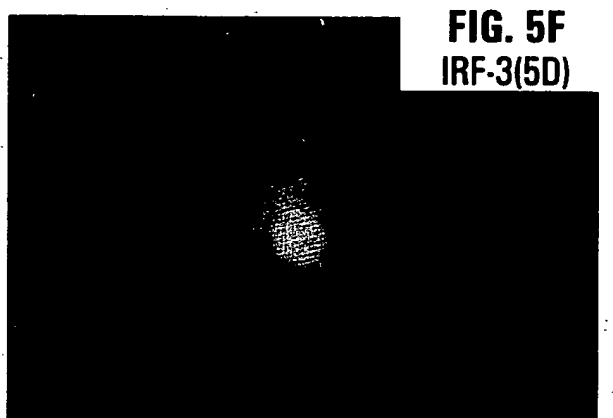
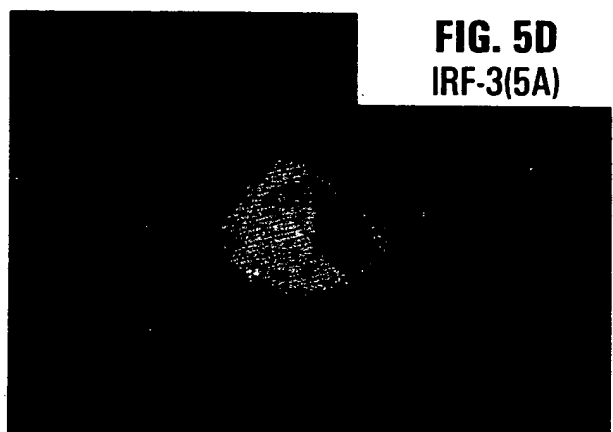
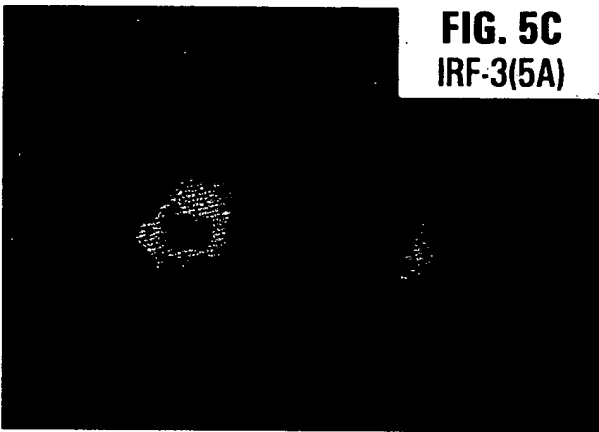
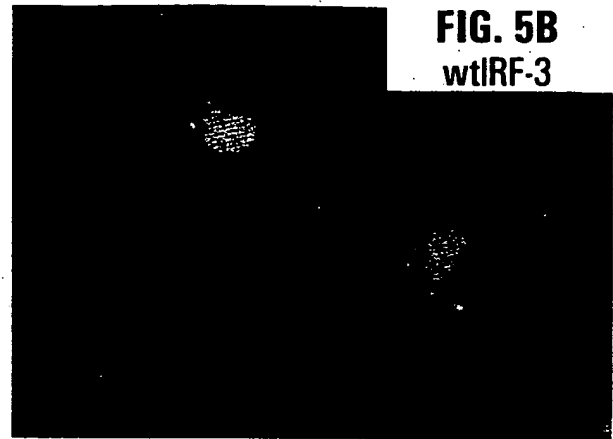
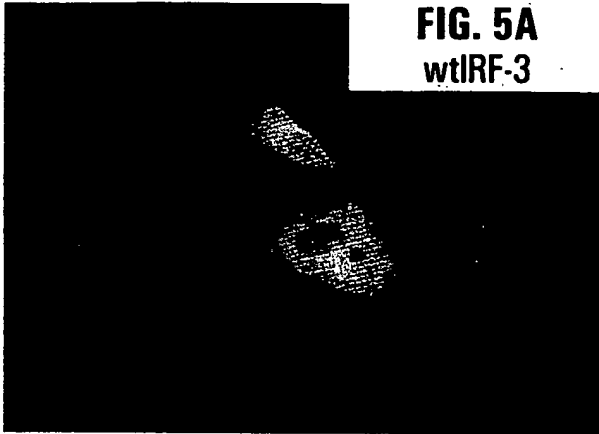


FIG. 4B

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IFN β -CAT

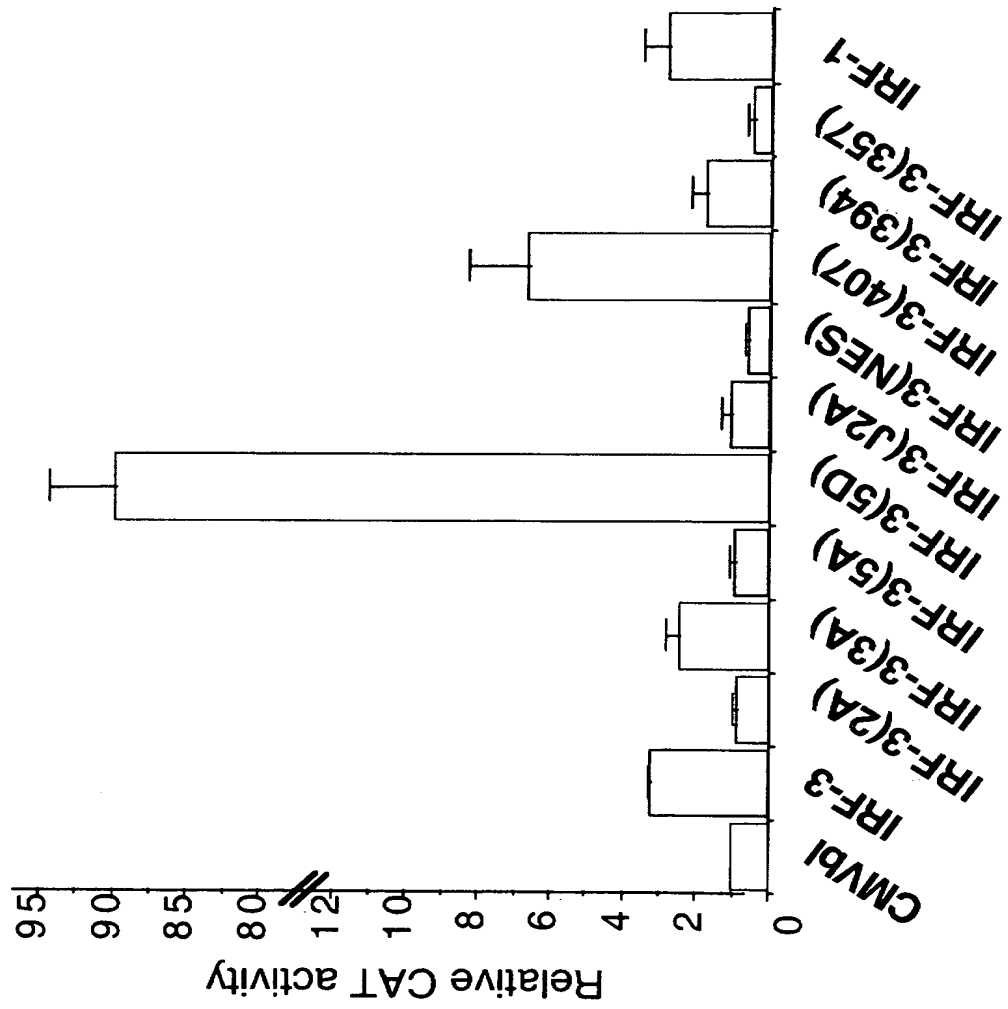


FIG. 6A

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IFN β -CAT

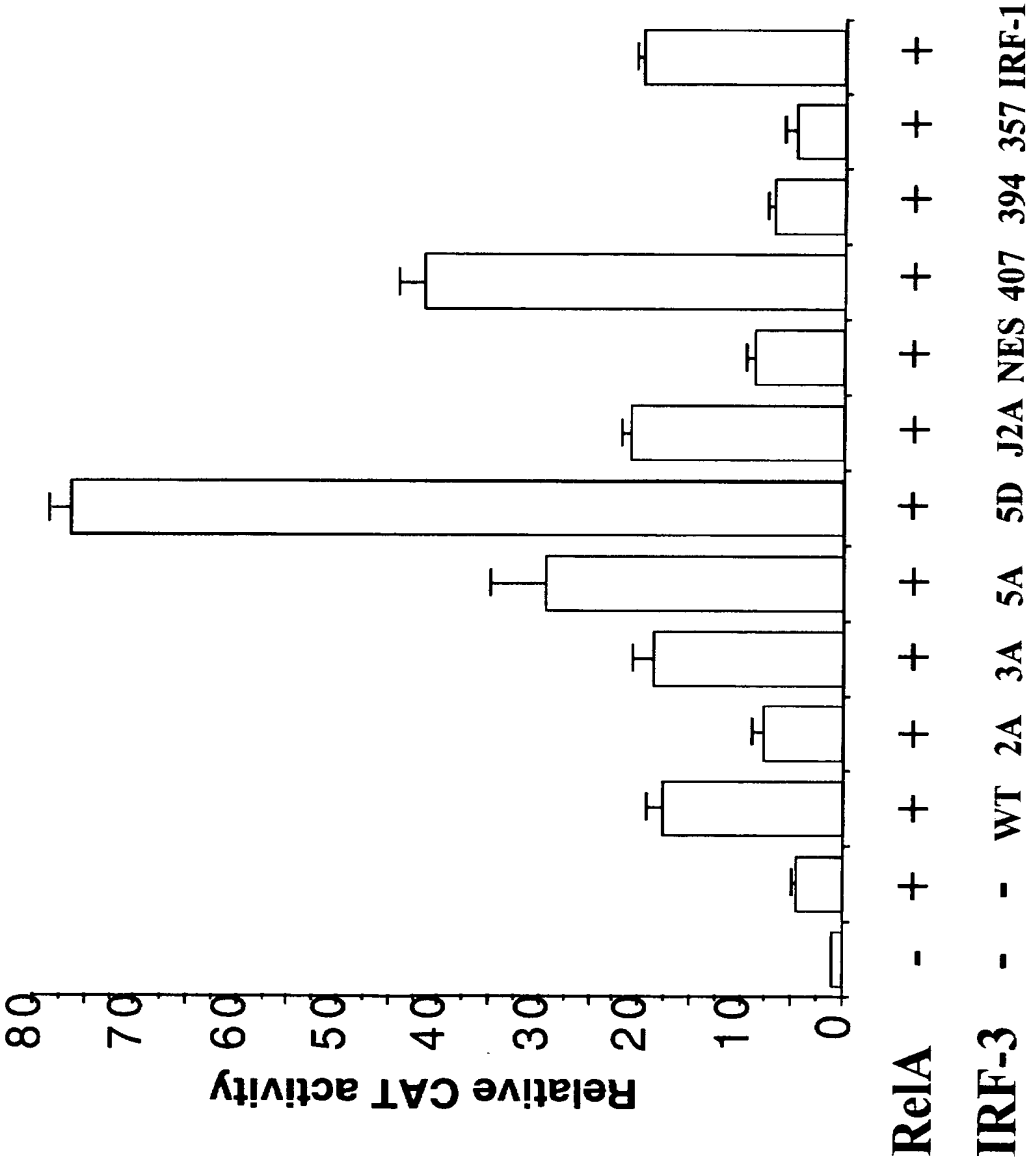


FIG. 6B

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ISG15-CAT

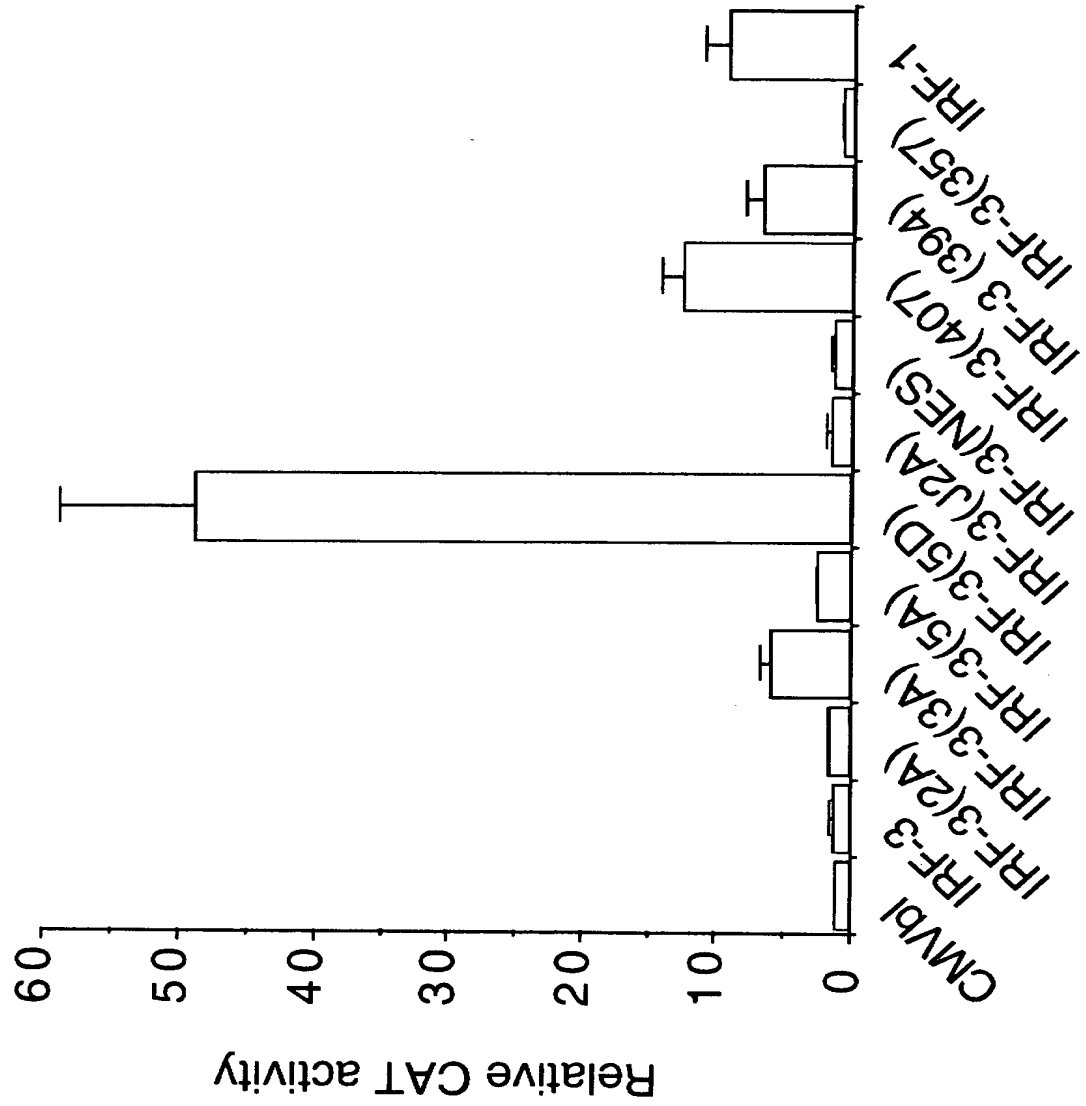


FIG. 6C

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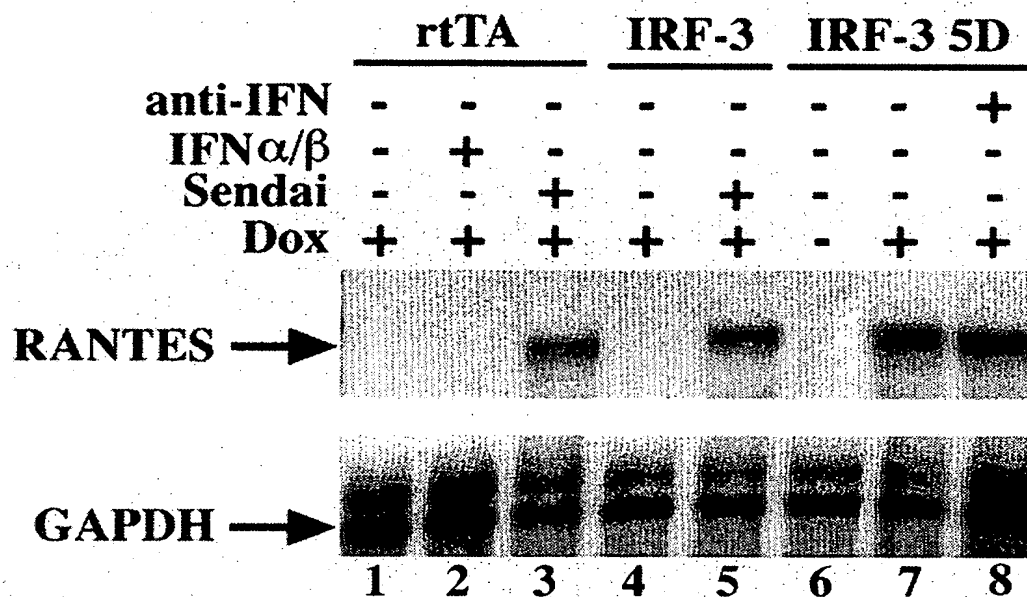


FIG. 7A

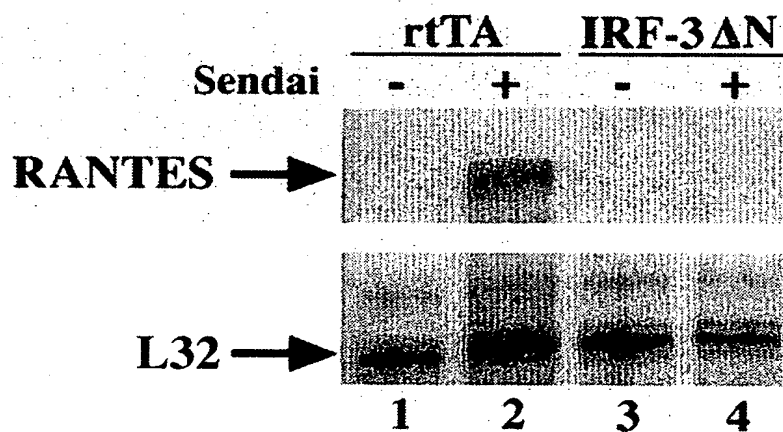
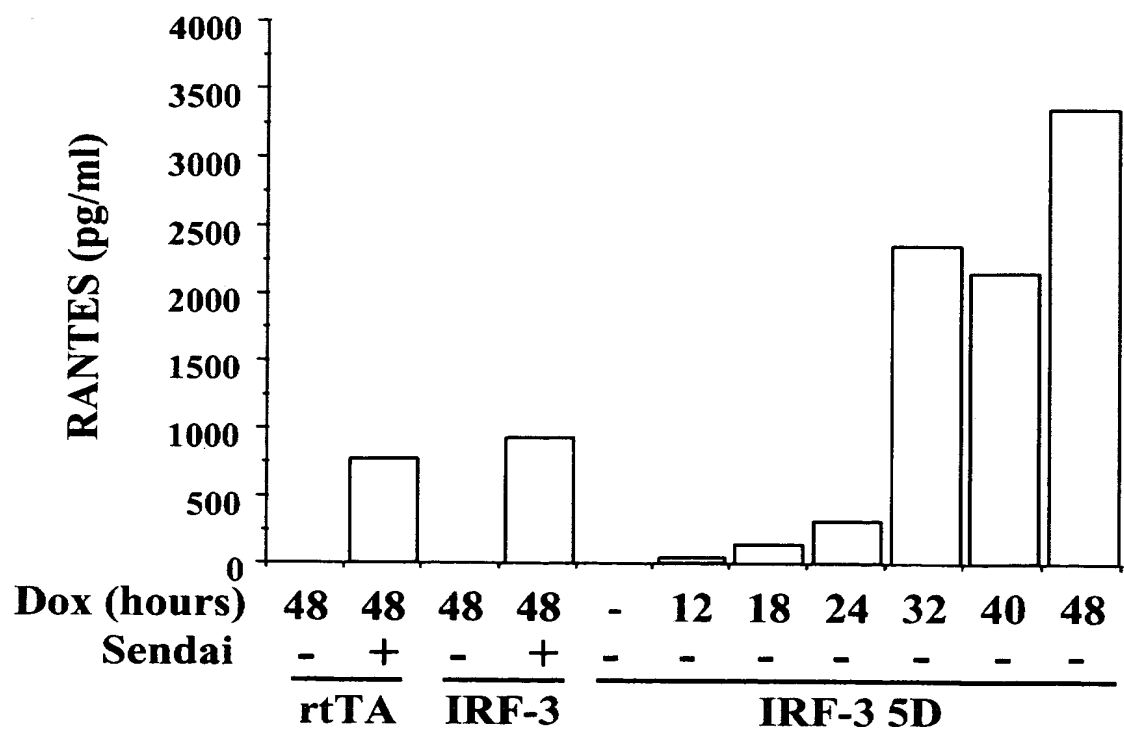
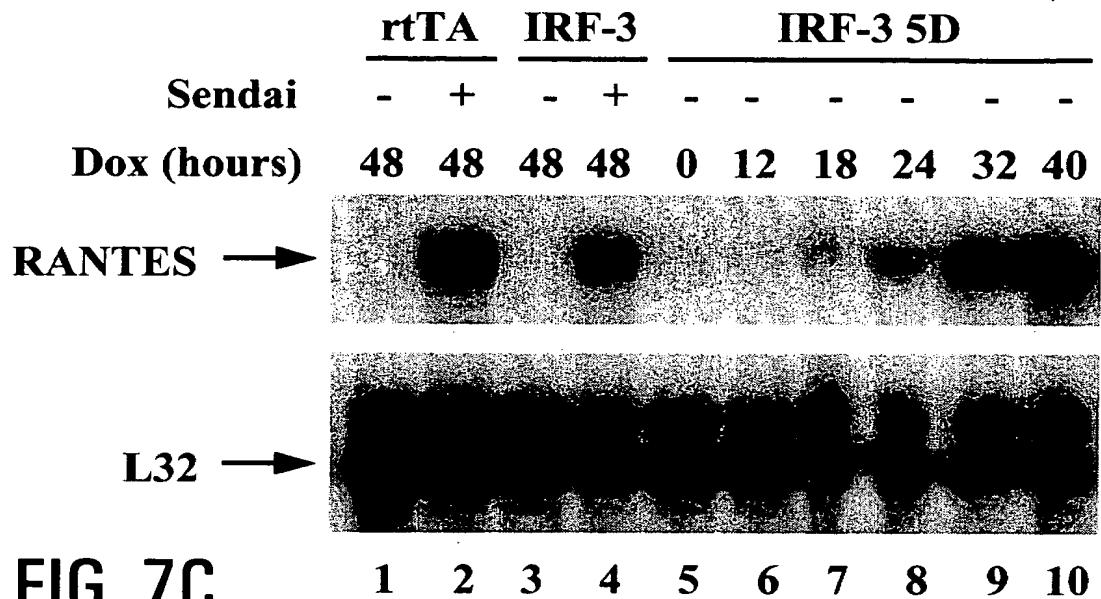
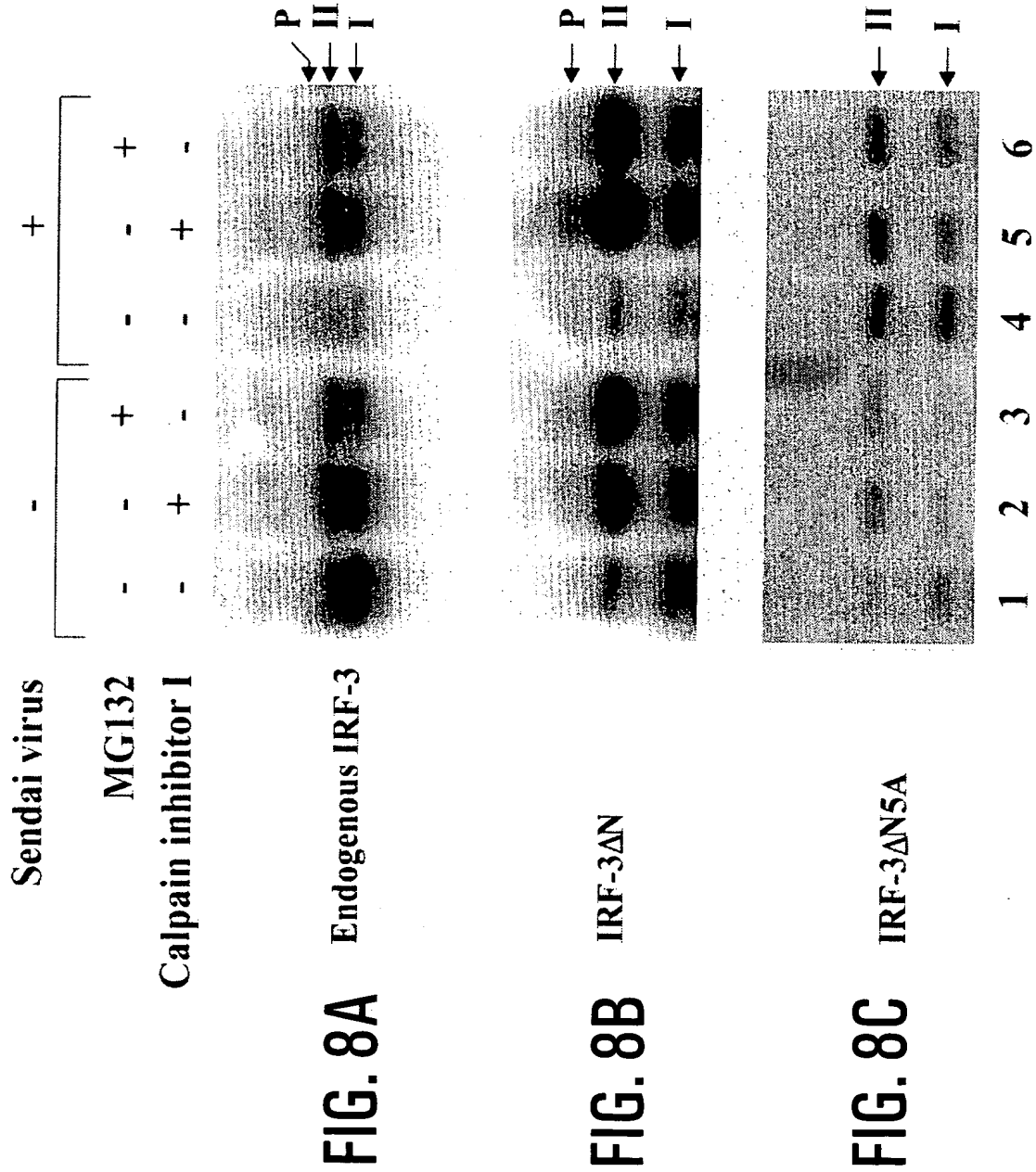


FIG. 7B

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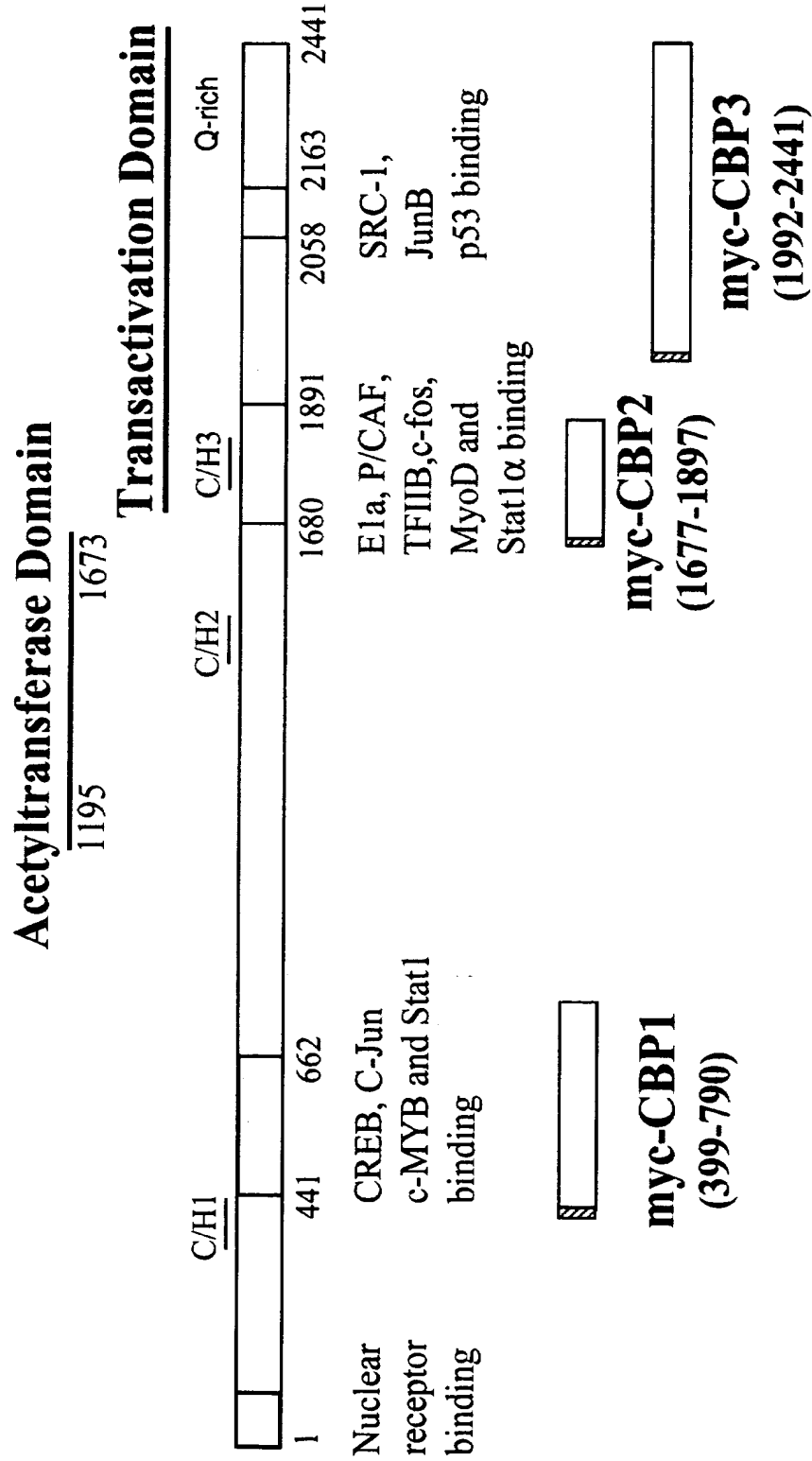


FIG. 9A

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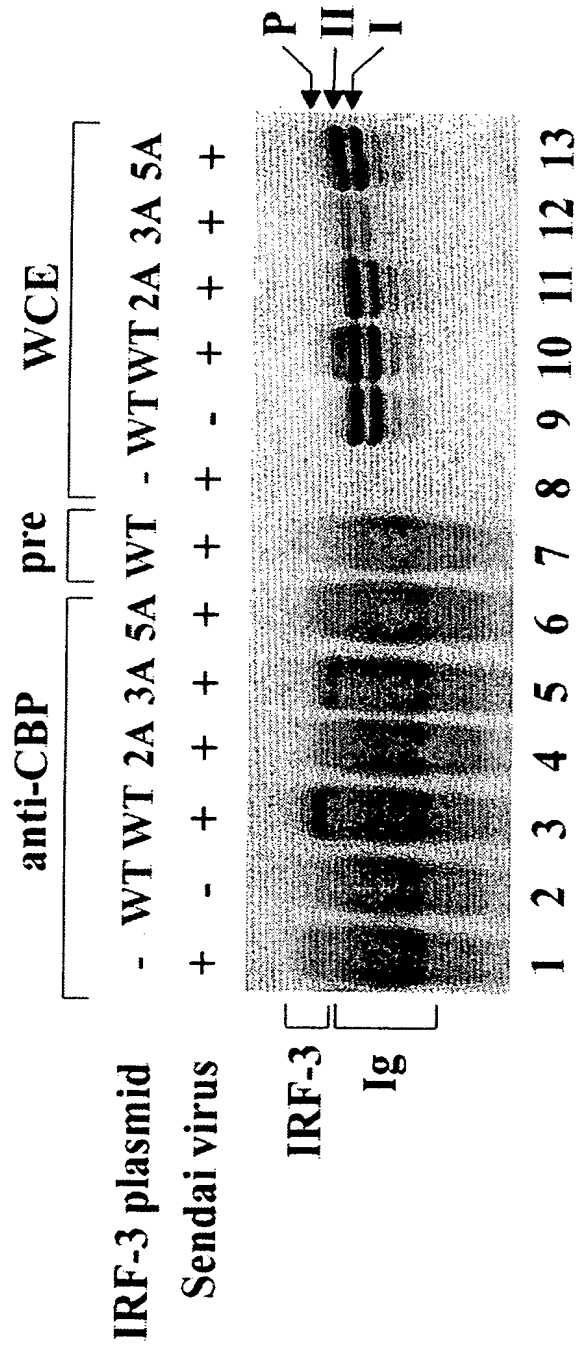


FIG. 9B

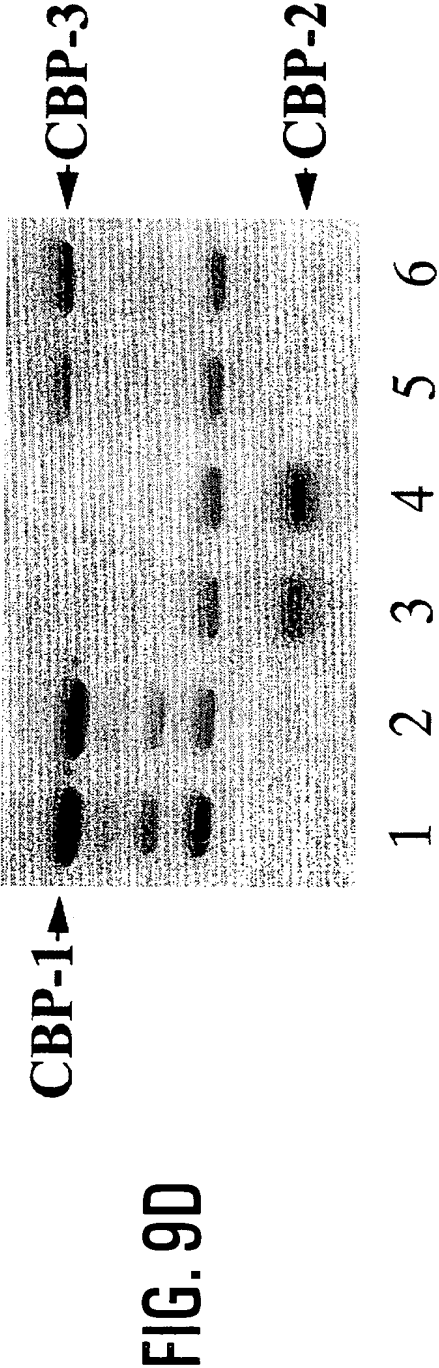
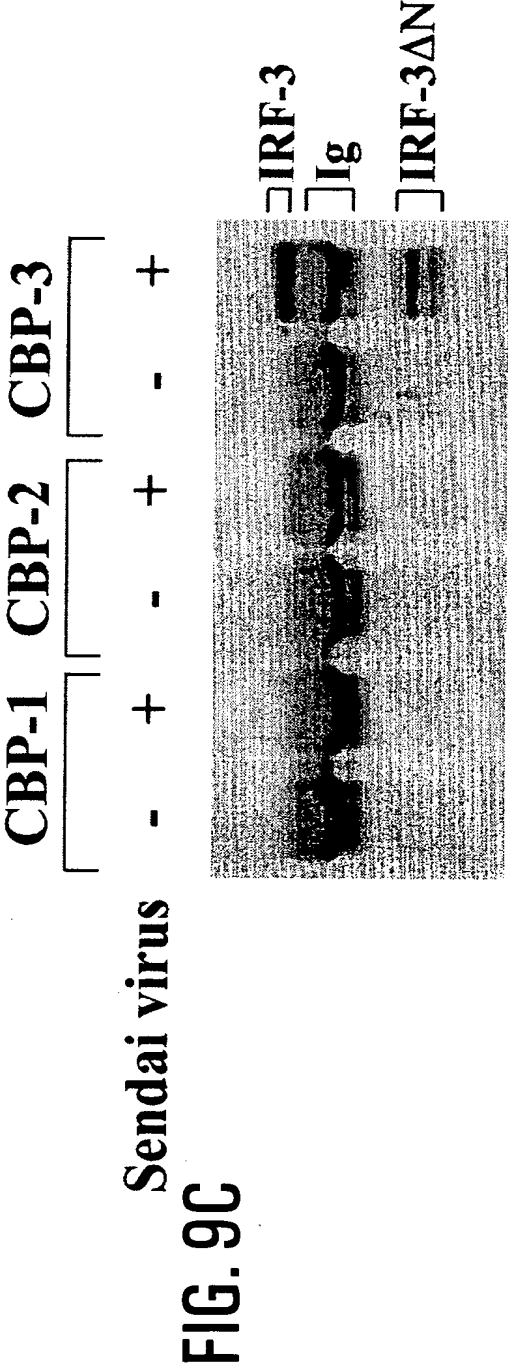


FIG. 10

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      440      450      460      470      480
      *      *      *      *      *
GGT AAC ATG GTG TTG GCC CCA CTC CCA GAT CCG GGA CCC CCA AGC CTG
CCA TTG TAC CAC AAC CGG GGT GAG GGT CTA GGC CCT GGG GGT TCG GAC
G   N   M   V   L   A   P   L   P   D   P   G   P   P   S   L>

      490      500      510      520
      *      *      *      *
GCT GTA GCC CCT GAG CCC TGC CCT CAG CCC CTG CGG AGC CCC AGC TTG
CGA CAT CGG GGA CTC GGG ACG GGA GTC GGG GAC GCC TCG GGG TCG AAC
A   V   A   P   E   P   C   P   Q   P   L   R   S   P   S   L>

530      540      550      560      570
*      *      *      *      *
GAC AAT CCC ACT CCC TTC CCA AAC CTG GGG CCC TCT GAG AAC CCA CTG
CTG TTA GGG TGA GGG AAG GGT TTG GAC CCC GGG AGA CTC TTG GGT GAC
D   N   P   T   P   F   P   N   L   G   P   S   E   N   P   L>

      580      590      600      610      620
      *      *      *      *      *
AAG CGG CTG TTG GTG CCG GGG GAA GAG TGG GAG TTC GAG GTG ACA GCC
TTC GCC GAC AAC CAC GGC CCC CTT CTC ACC CTC AAG CTC CAC TGT CGG
K   R   L   L   V   P   G   E   E   W   E   F   E   V   T   A>

      630      640      650      660      670
      *      *      *      *      *
TTC TAC CGG GGC CGC CAA GTC TTC CAG CAG ACC ATC TCC TGC CCG GAG
AAG ATG GCC CCG GCG GTT CAG AAG GTC GTC TGG TAG AGG ACG GGC CTC
F   Y   R   G   R   Q   V   F   Q   Q   T   I   S   C   P   E>

      680      690      700      710      720
      *      *      *      *      *
GGC CTG CGG CTG GTG GGG TCC GAA GTG GGA GAC AGG ACG CTG CCT GGA
CCG GAC GCC GAC CAC CCC AGG CTT CAC CCT CTG TCC TGC GAC GGA CCT
G   L   R   L   V   G   S   E   V   G   D   R   T   L   P   G>

      730      740      750      760
      *      *      *      *
TGG CCA GTC ACA CTG CCA GAC CCT GGC ATG TCC CTG ACA GAC AGG GGA
ACC GGT CAG TGT GAC GGT CTG GGA CCG TAC AGG GAC TGT CTG TCC CCT
W   P   V   T   L   P   D   P   G   M   S   L   T   D   R   G>

770      780      790      800      810
*      *      *      *      *
GTG ATG AGC TAC GTG AGG CAT GTG CTG AGC TGC CTG GGT GGG GGA CTG
CAC TAC TCG ATG CAC TCC GTA CAC GAC TCG ACG GAC CCA CCC CCT GAC
V   M   S   Y   V   R   H   V   L   S   C   L   G   G   G   L>

      820      830      840      850      860
      *      *      *      *      *
GCT CTC TGG CGG GCC GGG CAG TGG CTC TGG GCC CAG CGG CTG GGG CAC
CGA GAG ACC GCC CGG CCC GTC ACC GAG ACC CGG GTC GCC GAC CCC GTG
A   L   W   R   A   G   Q   W   L   W   A   Q   R   L   G   H>

      870      880      890      900      910
      *      *      *      *      *
TGC CAC ACA TAC TGG GCA GTG AGC GAG GAG CTG CTC CCC AAC AGC GGG
ACG GTG TGT ATG ACC CGT CAC TCG CTC CTC GAC GAG GGG TTG TCG CCC
C   H   T   Y   W   A   V   S   E   E   L   L   P   N   S   G>

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FIG. 10
CONTINUED

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          920          930          940          950          960
          *          *          *          *          *
CAT GGG CCT GAT GGC GAG GTC CCC AAG GAC AAG GAA GGA GGC GTG TTT
GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT CCG CAC AAA
H   G   P   D   G   E   V   P   K   D   K   E   G   G   V   F>

          970          980          990          1000
          *          *          *          *
GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG GAA GGA AGC
CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC CTT CCT TCG
D   L   G   P   F   I   V   D   L   I   T   F   T   E   G   S>

1010          1020          1030          1040          1050
*          *          *          *          *
GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG GAG TCA TGG
CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC CTC AGT ACC
G   R   S   P   R   Y   A   L   W   F   C   V   G   E   S   W>

          1060          1070          1080          1090          1100
          *          *          *          *          *
CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC AAG GTT GTG
GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG TTC CAA CAC
P   Q   D   Q   P   W   T   K   R   L   V   M   V   K   V   V>

          1110          1120          1130          1140          1150
          *          *          *          *          *
CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GCC CGG GTA GGG GGT GCC
GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT CCC CCA CGG
P   T   C   L   R   A   L   V   E   M   A   R   V   G   G   A>

          1160          1170          1180          1190          1200
          *          *          *          *          *
TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC GAC CAC CCA
AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG CTG GTG GGT
S   S   L   E   N   T   V   D   L   H   I   D   N   D   H   P>

          1210          1220          1230          1240
          *          *          *          *
CTC GAC CTC GAC GAC GAC CAG TAC AAG GCC TAC CTG CAG GAC TTG GTG
GAG CTG GAG CTG CTG CTG GTC ATG TTC CGG ATG GAC GTC CTG AAC CAC
L   D   L   D   D   D   Q   Y   K   A   Y   L   Q   D   L   V>

1250          1260          1270          1280
*          *          *          *
GAG GGC ATG GAT TTC CAG GGC CCT GGG GAG AGC TGA
CTC CCG TAC CTA AAG GTC CCG GGA CCC CTC TCG ACT
E   G   M   D   F   Q   G   P   G   E   S>

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FIG. 10
CONTINUED

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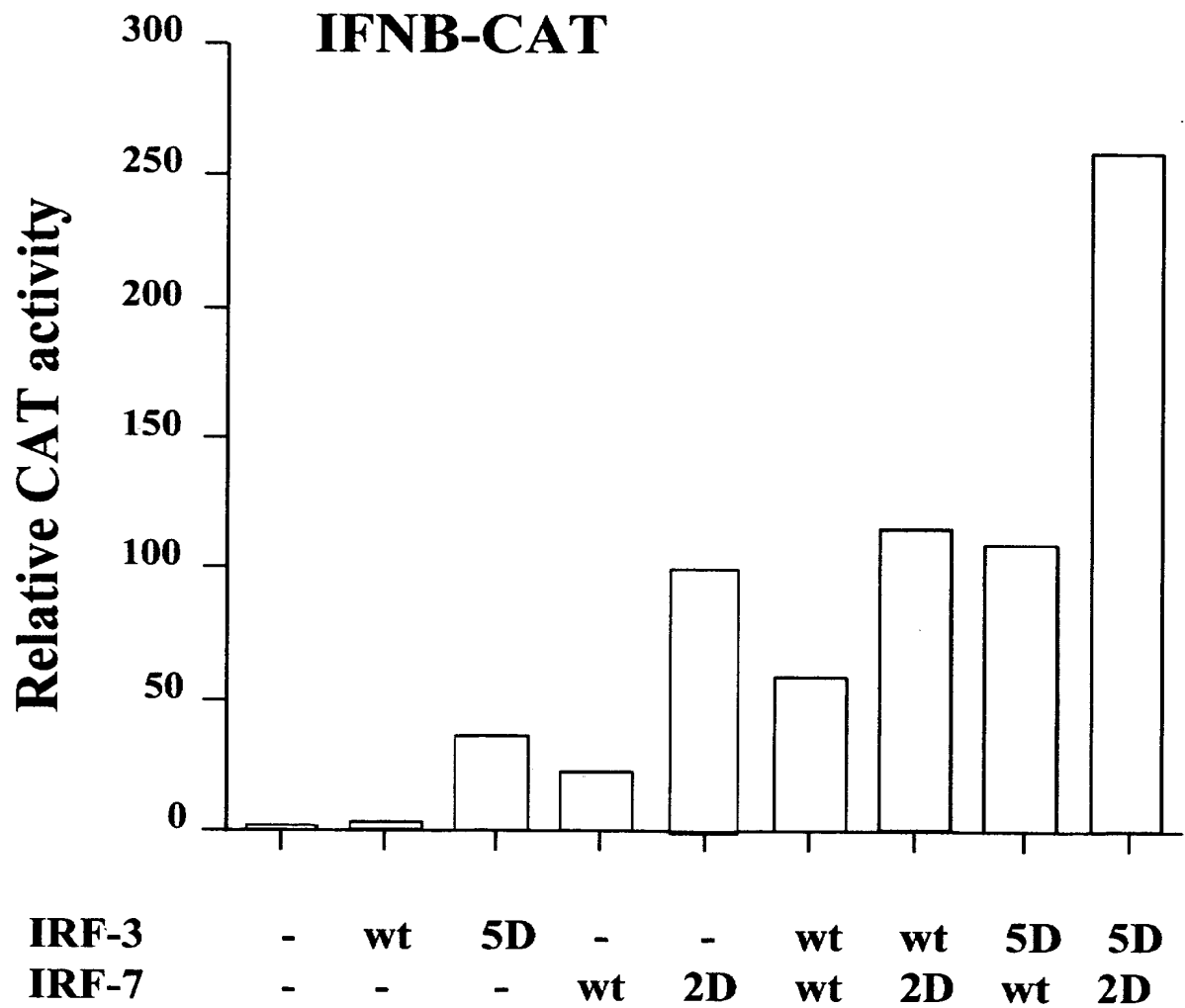


FIG. 11

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			10				20				30				40			
			*				*				*				*			
ATG	GCC	TTG	GCT	CCT	GAG	AGG	GCA	GCC	CCA	CGC	GTG	CTG	TTC	GGA	GAG			
TAC	CGG	AAC	CGA	GGA	CTC	TCC	CGT	CGG	GGT	GCG	CAC	GAC	AAG	CCT	CTC			
M	A	L	A	P	E	R	A	A	P	R	V	L	F	G	E>			
50			60				70				80				90			
*			*				*				*				*			
TGG	CTC	CTT	GGA	GAG	ATC	AGC	AGC	GGC	TGC	TAT	GAG	GGG	CTG	CAG	TGG			
ACC	GAG	GAA	CCT	CTC	TAG	TCG	TCG	CCG	ACG	ATA	CTC	CCC	GAC	GTC	ACC			
W	L	L	G	E	I	S	S	G	C	Y	E	G	L	Q	W>			
100			110				120				130				140			
*			*				*				*				*			
CTG	GAC	GAG	GCC	CGC	ACC	TGT	TTC	CGC	GTG	CCC	TGG	AAG	CAC	TTC	GCG			
GAC	CTG	CTC	CGG	GCG	TGG	ACA	AAG	GCG	CAC	GGG	ACC	TTC	GTG	AAG	CGC			
L	D	E	A	R	T	C	F	R	V	P	W	K	H	F	A>			
150			160				170				180				190			
*			*				*				*				*			
CGC	AAG	GAC	CTG	AGC	GAG	GCC	GAC	GCG	CGC	ATC	TTC	AAG	GCC	TGG	GCT			
GCG	TTC	CTG	GAC	TCG	CTC	CGG	CTG	CGC	GCG	TAG	AAG	TTC	CGG	ACC	CGA			
R	K	D	L	S	E	A	D	A	R	I	F	K	A	W	A>			
200			210				220				230				240			
*			*				*				*				*			
GTG	GCC	CGC	GGC	AGG	TGG	CCG	CCT	AGC	AGC	AGG	GGA	GGT	GGC	CCG	CCC			
CAC	CGG	GCG	CCG	TCC	ACC	GGC	GGA	TCG	TCG	TCC	CCT	CCA	CCG	GGC	GGG			
V	A	R	G	R	W	P	P	S	S	R	G	G	G	P	P>			
250			260				270				280							
*			*				*				*				*			
CCC	GAG	GCT	GAG	ACT	GCG	GAG	CGC	GCC	GGC	TGG	AAA	ACC	AAC	TTC	CGC			
GGG	CTC	CGA	CTC	TGA	CGC	CTC	GCG	CGG	CCG	ACC	TTT	TGG	TTG	AAG	GCG			
P	E	A	E	T	A	E	R	A	G	W	K	T	N	F	R>			
290			300				310				320				330			
*			*				*				*				*			
TGC	GCA	CTG	CGC	AGC	ACG	CGT	CGC	TTC	GTG	ATG	CTG	CGG	GAT	AAC	TCG			
ACG	CGT	GAC	GCG	TCG	TGC	GCA	GCG	AAG	CAC	TAC	GAC	GCC	CTA	TTG	AGC			
C	A	L	R	S	T	R	R	F	V	M	L	R	D	N	S>			
340			350				360				370				380			
*			*				*				*				*			
GGG	GAC	CCG	GCC	GAC	CCG	CAC	AAG	GTG	TAC	GCG	CTC	AGC	CGG	GAG	CTG			
CCC	CTG	GGC	CGG	CTG	GGC	GTG	TTC	CAC	ATG	CGC	GAG	TCG	GCC	CTC	GAC			
G	D	P	A	D	P	H	K	V	Y	A	L	S	R	E	L>			

FIG. 12

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      390              400              410              420              430
      *              *              *              *              *
TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC
ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG
  C   W   R   E   G   P   G   T   D   Q   T   E   A   E   A   P>

      440              450              460              470              480
      *              *              *              *              *
GCA GCT GTC CCA CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA
CGT CGA CAG GGT GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT
  A   A   V   P   P   P   Q   G   G   P   P   G   P   F   L   A>

      490              500              510              520
      *              *              *              *
CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT
GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA
  H   T   H   A   G   L   Q   A   P   G   P   L   P   A   P   A>

530              540              550              560              570
*              *              *              *              *
GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG
CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC
  G   D   K   G   D   L   L   L   Q   A   V   Q   Q   S   C   L>

      580              590              600              610              620
      *              *              *              *              *
GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC
CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG
  A   D   H   L   L   T   A   S   W   G   A   D   P   V   P   T>

      630              640              650              660              670
      *              *              *              *              *
AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT
TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA
  K   A   P   G   E   G   Q   E   G   L   P   L   T   G   A   C>

      680              690              700              710              720
      *              *              *              *              *
GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA
CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT
  A   G   G   P   G   L   P   A   G   E   L   Y   G   W   A   V>

      730              740              750              760
      *              *              *              *
GAG ACG ACC CCC AGC CCC GGG CCC CAG CCC GCG GCA CTA ACG ACA GGC
CTC TGC TGG GGG TCG GGG CCC GGG GTC GGG CGC CGT GAT TGC TGT CCG
  E   T   T   P   S   P   G   P   Q   P   A   A   L   T   T   G>

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FIG. 12
CONTINUED

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770          780          790          800          810
*           *           *           *           *
GAG GCC GCG GCC CCA GAG TCC CCG CAC CAG GCA GAG CCG TAC CTG TCA
CTC CGG CGC CGG GGT CTC AGG GGC GTG GTC CGT CTC GGC ATG GAC AGT
E   A   A   A   P   E   S   P   H   Q   A   E   P   Y   L   S>

      820          830          840          850          860
      *           *           *           *           *
CCC TCC CCA AGC GCC TGC ACC GCG GTG CAA GAG CCC AGC CCA GGG GCG
GGG AGG GGT TCG CGG ACG TGG CGC CAC GTT CTC GGG TCG GGT CCC CGC
P   S   P   S   A   C   T   A   V   Q   E   P   S   P   G   A>

      870          880          890          900          910
      *           *           *           *           *
CTG GAC GTG ACC ATC ATG TAC AAG GGC CGC ACG GTG CTG CAG AAG GTG
GAC CTG CAC TGG TAG TAC ATG TTC CCG GCG TGC CAC GAC GTC TTC CAC
L   D   V   T   I   M   Y   K   G   R   T   V   L   Q   K   V>

      920          930          940          950          960
      *           *           *           *           *
GTG GGA CAC CCG AGC TGC ACG TTC CTA TAC GGC CCC CCA GAC CCA GCT
CAC CCT GTG GGC TCG ACG TGC AAG GAT ATG CCG GGG GGT CTG GGT CGA
V   G   H   P   S   C   T   F   L   Y   G   P   P   D   P   A>

      970          980          990          1000
      *           *           *           *
GTC CGG GCC ACA GAC CCC CAG CAG GTA GCA TTC CCC AGC CCT GCC GAG
CAG GCC CGG TGT CTG GGG GTC GTC CAT CGT AAG GGG TCG GGA CGG CTC
V   R   A   T   D   P   Q   Q   V   A   F   P   S   P   A   E>

1010          1020          1030          1040          1050
*           *           *           *           *
CTC CCG GAC CAG AAG CAG CTG CGC TAC ACG GAG GAA CTG CTG CGG CAC
GAG GGC CTG GTC TTC GTC GAC GCG ATG TGC CTC CTT GAC GAC GCC GTG
L   P   D   Q   K   Q   L   R   Y   T   E   E   L   L   R   H>

      1060          1070          1080          1090          1100
      *           *           *           *           *
GTG GCC CCT GGG TTG CAC CTG GAG CTT CGG GGG CCA CAG CTG TGG GCC
CAC CGG GGA CCC AAC GTG GAC CTC GAA GCC CCC GGT GTC GAC ACC CGG
V   A   P   G   L   H   L   E   L   R   G   P   Q   L   W   A>

      1110          1120          1130          1140          1150
      *           *           *           *           *
CGG CGC ATG GGC AAG TGC AAG GTG TAC TGG GAG GTG GGC GGA CCC CCA
GCC GCG TAC CCG TTC ACG TTC CAC ATG ACC CTC CAC CCG CCT GGG GGT
R   R   M   G   K   C   K   V   Y   W   E   V   G   G   P   P>
```

FIG. 12
CONTINUED

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1160	1170	1180	1190	1200
*	*	*	*	*
GGC TCC GCC AGC CCC TCC ACC CCA GCC TGC CTG CTG CCT CGG AAC TGT				
CCG AGG CGG TCG GGG AGG TGG GGT CGG ACG GAC GAC GGA GCC TTG ACA				
G S A S P S T P A C L L P R N C>				
1210	1220	1230	1240	
*	*	*	*	
GAC ACC CCC ATC TTC GAC TTC AGA GTC TTC TTC CAA GAG CTG GTG GAA				
CTG TGG GGG TAG AAG CTG AAG TCT CAG AAG AAG GTT CTC GAC CAC CTT				
D T P I F D F R V F F Q E L V E>				
1250	1260	1270	1280	1290
*	*	*	*	*
TTC CGG GCA CGG CAG CGC CGT GGC TCC CCA CGC TAT ACC ATC TAC CTG				
AAG GCC CGT GCC GTC GCG GCA CCG AGG GGT GCG ATA TGG TAG ATG GAC				
F R A R Q R R G S P R Y T I Y L>				
1300	1310	1320	1330	1340
*	*	*	*	*
GGC TTC GGG CAG GAC CTG TCA GCT GGG AGG CCC AAG GAG AAG AGC CTG				
CCG AAG CCC GTC CTG GAC AGT CGA CCC TCC GGG TTC CTC TTC TCG GAC				
G F G Q D L S A G R P K E K S L>				
1350	1360	1370	1380	1390
*	*	*	*	*
GTC CTG GTG AAG CTG GAA CCC TGG CTG TGC CGA GTG CAC CTA GAG GGC				
CAG GAC CAC TTC GAC CTT GGG ACC GAC ACG GCT CAC GTG GAT CTC CCG				
V L V K L E P W L C R V H L E G>				
1400	1410	1420	1430	1440
*	*	*	*	*
ACG CAG CGT GAG GGT GTG TCT TCC CTG GAT AGC AGC GAC CTC GAC CTC				
TGC GTC GCA CTC CCA CAC AGA AGG GAC CTA TCG TCG CTG GAG CTG GAG				
T Q R E G V S S L D S S D L D L>				
1450	1460	1470	1480	
*	*	*	*	
TGC CTG TCC AGC GCC AAC AGC CTC TAT GAC GAC ATC GAG TGC TTC CTT				
ACG GAC AGG TCG CGG TTG TCG GAG ATA CTG CTG TAG CTC ACG AAG GAA				
C L S S A N S L Y D D I E C F L>				
1490	1500	1510		
*	*	*		
ATG GAG CTG GAG CAG CCC GCC TAG				
TAC CTC GAC CTC GTC GGG CGG ATC				
M E L E Q P A>				

FIG. 12
 CONTINUED

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      10      20      30      40
      *      *      *      *
ATG GCC TTG GCT CCT GAG AGG GCA GCC CCA CGC GTG CTG TTC GGA GAG
TAC CGG AAC CGA GGA CTC TCC CGT CGG GGT GCG CAC GAC AAG CCT CTC
M  A  L  A  P  E  R  A  A  P  R  V  L  F  G  E>

50      60      70      80      90
*      *      *      *      *
TGG CTC CTT GGA GAG ATC AGC AGC GGC TGC TAT GAG GGG CTG CAG TGG
ACC GAG GAA CCT CTC TAG TCG TCG CCG ACG ATA CTC CCC GAC GTC ACC
W  L  L  G  E  I  S  S  G  C  Y  E  G  L  Q  W>

100      110      120      130      140
*      *      *      *      *
CTG GAC GAG GCC CGC ACC TGT TTC CGC GTG CCC TGG AAG CAC TTC GCG
GAC CTG CTC CGG GCG TGG ACA AAG GCG CAC GGG ACC TTC GTG AAG CGC
L  D  E  A  R  T  C  F  R  V  P  W  K  H  F  A>

150      160      170      180      190
*      *      *      *      *
CGC AAG GAC CTG AGC GAG GCC GAC GCG CGC ATC TTC AAG GCC TGG GCT
GCG TTC CTG GAC TCG CTC CGG CTG CGC GCG TAG AAG TTC CGG ACC CGA
R  K  D  L  S  E  A  D  A  R  I  F  K  A  W  A>

200      210      220      230      240
*      *      *      *      *
GTG GCC CGC GGC AGG TGG CCG CCT AGC AGC AGG GGA GGT GGC CCG CCC
CAC CGG GCG CCG TCC ACC GGC GGA TCG TCG TCC CCT CCA CCG GGC GGG
V  A  R  G  R  W  P  P  S  S  R  G  G  G  P  P>

250      260      270      280
*      *      *      *
CCC GAG GCT GAG ACT GCG GAG CGC GCC GGC TGG AAA ACC AAC TTC CGC
GGG CTC CGA CTC TGA CGC CTC GCG CGG CCG ACC TTT TGG TTG AAG GCG
P  E  A  E  T  A  E  R  A  G  W  K  T  N  F  R>

290      300      310      320      330
*      *      *      *      *
TGC GCA CTG CGC AGC ACG CGT CGC TTC GTG ATG CTG CGG GAT AAC TCG
ACG CGT GAC GCG TCG TGC GCA GCG AAG CAC TAC GAC GCC CTA TTG AGC
C  A  L  R  S  T  R  R  F  V  M  L  R  D  N  S>

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FIG. 13

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340 * GGG GAC CCG GCC GAC CCG CAC AAG GTG TAC GCG CTC AGC CGG GAG CTG CCC CTG GGC CGG CTG GGC GTG TTC CAC ATG CGC GAG TCG GCC CTC GAC G D P A D P H K V Y A L S R E L>	350 * 	360 * 	370 * 	380 *
390 * TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG C W R E G P G T D Q T E A E A P>	400 * 	410 * 	420 * 	430 *
440 * GCA GCT GTC CCA CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA CGT CGA CAG GGT GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT A A V P P P Q G G P P G P F L A>	450 * 	460 * 	470 * 	480 *
490 * CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA H T H A G L Q A P G P L P A P A>	500 * 	510 * 	520 * 	
530 * GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC G D K G D L L L Q A V Q Q S C L>	540 * 	550 * 	560 * 	570 *
580 * GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG A D H L L T A S W G A D P V P T>	590 * 	600 * 	610 * 	620 *
630 * AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA K A P G E G Q E G L P L T G A C>	640 * 	650 * 	660 * 	670 *
680 * GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT A G G P G L P A G E L Y G W A V>	690 * 	700 * 	710 * 	720 *

FIG. 13
CONTINUED

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              730              740              750              760
              *              *              *              *
GAG ACG ACC CCC AGC CCC ACT TCT GAT ACC CAG GAA GAC ATT CTG GAT
CTC TGC TGG GGG TCG GGG TGA AGA CTA TGG GTC CTT CTG TAA GAC CTA
E   T   T   P   S   P   T   S   D   T   Q   E   D   I   L   D>

770              780              790              800              810
*              *              *              *              *
GAG TTA CTG GGT AAC ATG GTG TTG GCC CCA CTC CCA GAT CCG GGA CCC
CTC AAT GAC CCA TTG TAC CAC AAC CGG GGT GAG GGT CTA GGC CCT GGG
E   L   L   G   N   M   V   L   A   P   L   P   D   P   G   P>

      820              830              840              850              860
      *              *              *              *              *
CCA AGC CTG GCT GTA GCC CCT GAG CCC TGC CCT CAG CCC CTG CGG AGC
GGT TCG GAC CGA CAT CGG GGA CTC GGG ACG GGA GTC GGG GAC GCC TCG
P   S   L   A   V   A   P   E   P   C   P   Q   P   L   R   S>

      870              880              890              900              910
      *              *              *              *              *
CCC AGC TTG GAC AAT CCC ACT CCC TTC CCA AAC CTG GGG CCC TCT GAG
GGG TCG AAC CTG TTA GGG TGA GGG AAG GGT TTG GAC CCC GGG AGA CTC
P   S   L   D   N   P   T   P   F   P   N   L   G   P   S   E>

      920              930              940              950              960
      *              *              *              *              *
AAC CCA CTG AAG CGG CTG TTG GTG CCG GGG GAA GAG TGG GAG TTC GAG
TTG GGT GAC TTC GCC GAC AAC CAC GGC CCC CTT CTC ACC CTC AAG CTC
N   P   L   K   R   L   L   V   P   G   E   E   W   E   F   E>

      970              980              990              1000
      *              *              *              *
GTG ACA GCC TTC TAC CGG GGC CGC CAA GTC TTC CAG CAG ACC ATC TCC
CAC TGT CGG AAG ATG GCC CCG GCG GTT CAG AAG GTC GTC TGG TAG AGG
V   T   A   F   Y   R   G   R   Q   V   F   Q   Q   T   I   S>

1010              1020              1030              1040              1050
*              *              *              *              *
TGC CCG GAG GGC CTG CGG CTG GTG GGG TCC GAA GTG GGA GAC AGG ACG
ACG GGC CTC CCG GAC GCC GAC CAC CCC AGG CTT CAC CCT CTG TCC TGC
C   P   E   G   L   R   L   V   G   S   E   V   G   D   R   T>

      1060              1070              1080              1090              1100
      *              *              *              *              *
CTG CCT GGA TGG CCA GTC ACA CTG CCA GAC CCT GGC ATG TCC CTG ACA
GAC GGA CCT ACC GGT CAG TGT GAC GGT CTG GGA CCG TAC AGG GAC TGT
L   P   G   W   P   V   T   L   P   D   P   G   M   S   L   T>

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FIG. 13
CONTINUED

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1110 *	1120 *	1130 *	1140 *	1150 *
GAC AGG GGA GTG ATG AGC TAC GTG AGG CAT GTG CTG AGC TGC CTG GGT				
CTG TCC CCT CAC TAC TCG ATG CAC TCC GTA CAC GAC TCG ACC GAC CCA				
D R G V M S Y V R H V L S C L G>				
1160 *	1170 *	1180 *	1190 *	1200 *
GGG GGA CTG GCT CTC TGG CGG GCC GGG CAG TGG CTC TGG GCC CAG CGG				
CCC CCT GAC CGA GAG ACC GCC CGG CCC GTC ACC GAG ACC CGG GTC GCC				
G G L A L W R A G Q W L W A Q R>				
1210 *	1220 *	1230 *	1240 *	
CTG GGG CAC TGC CAC ACA TAC TGG GCA GTG AGC GAG GAG CTG CTC CCC				
GAC CCC GTG ACG GTG TGT ATG ACC CGT CAC TCG CTC CTC GAC GAG GGG				
L G H C H T Y W A V S E E L L P>				
1250 *	1260 *	1270 *	1280 *	1290 *
AAC AGC GGG CAT GGG CCT GAT GGC GAG GTC CCC AAG GAC AAG GAA GGA				
TTG TCG CCC GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT				
N S G H G P D G E V P K D K E G>				
1300 *	1310 *	1320 *	1330 *	1340 *
GGC GTG TTT GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG				
CCG CAC AAA CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC				
G V F D L G P F I V D L I T F T>				
1350 *	1360 *	1370 *	1380 *	1390 *
GAA GGA AGC GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG				
CTT CCT TCG CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC				
E G S G R S P R Y A L W F C V G>				
1400 *	1410 *	1420 *	1430 *	1440 *
GAG TCA TGG CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC				
CTC AGT ACC GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG				
E S W P Q D Q P W T K R L V M V>				
1450 *	1460 *	1470 *	1480 *	
AAG GTT GTG CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GCC CGG GTA				
TTC CAA CAC GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT				
K V V P T C L R A L V E M A R V>				
1490 *	1500 *	1510 *	1520 *	1530 *
GGG GGT GCC TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC				
CCC CCA CGG AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG				
G G A S S L E N T V D L H I D N>				

FIG. 13
 CONTINUED

FIG. 13
CONTINUED

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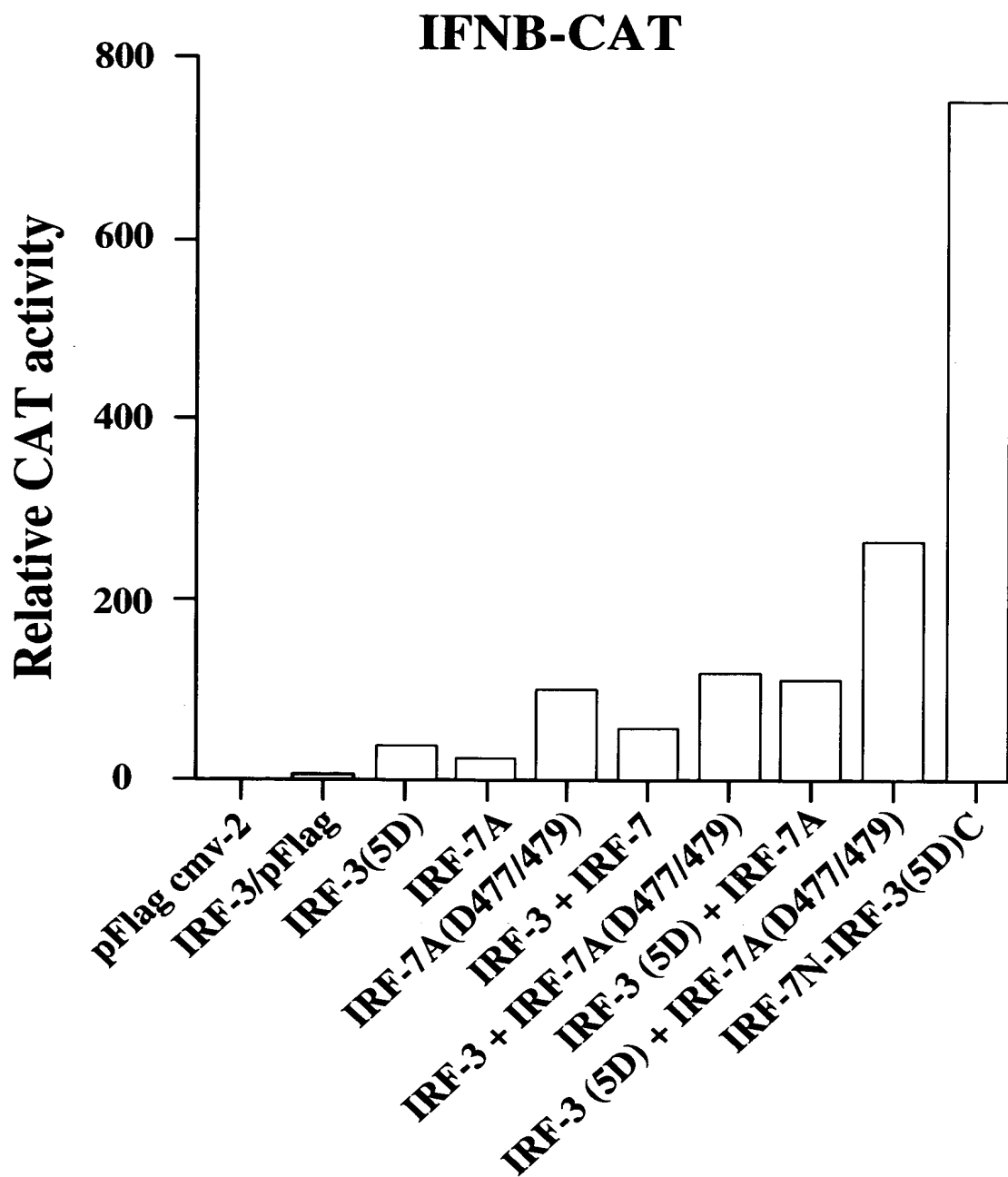


FIG. 14